

Fig. 1

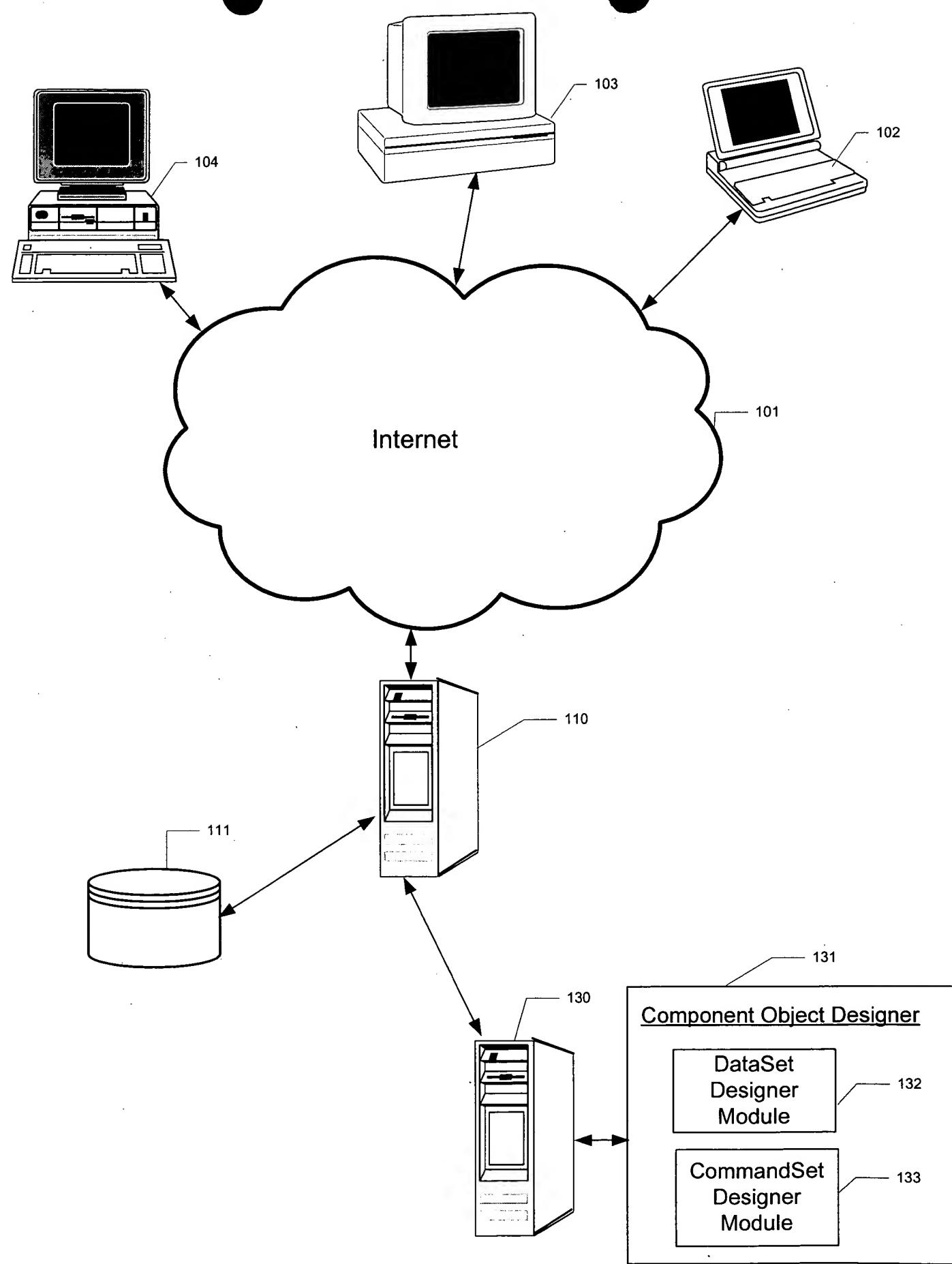
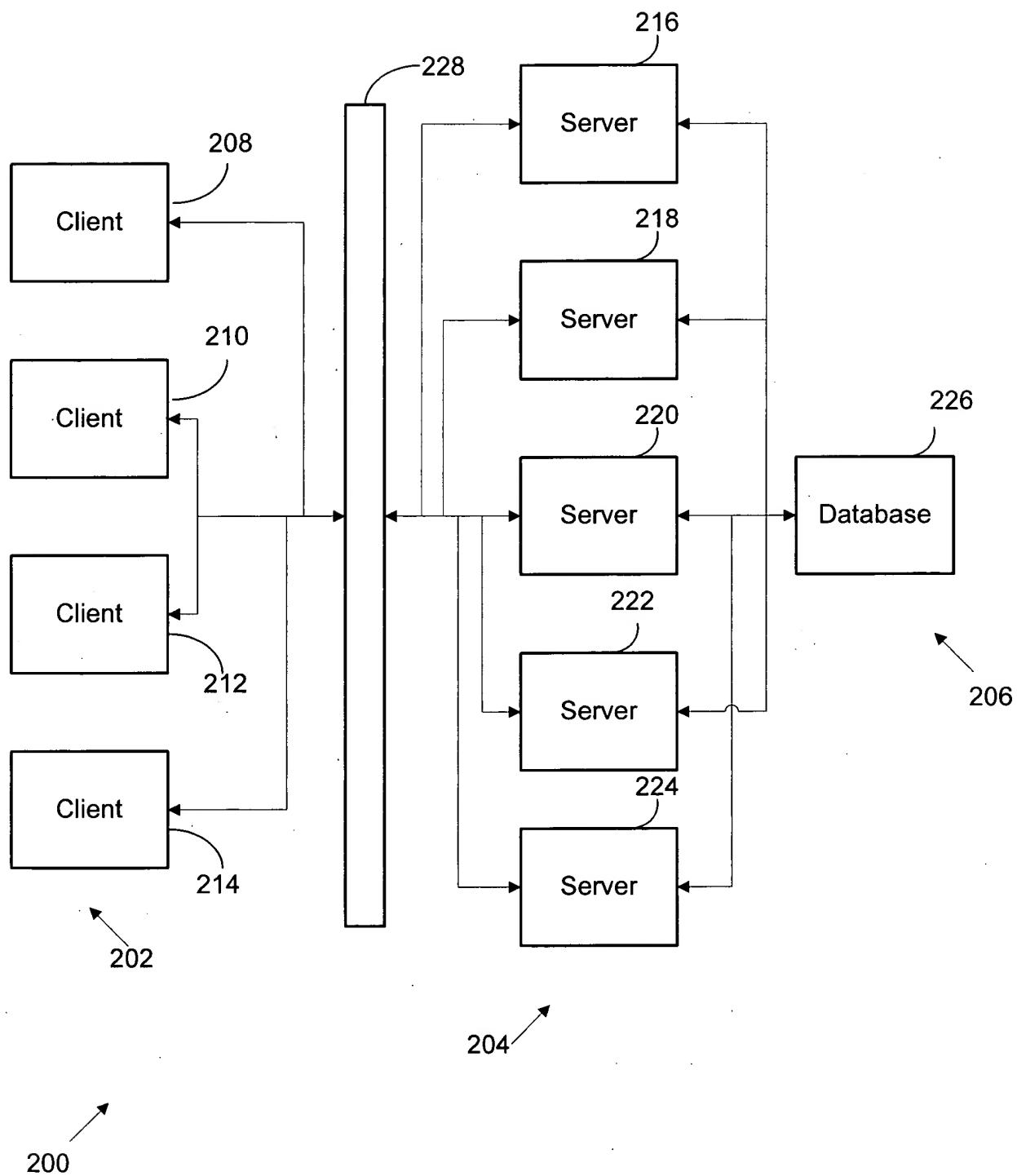


Fig. 2

20000000000000000000000000000000



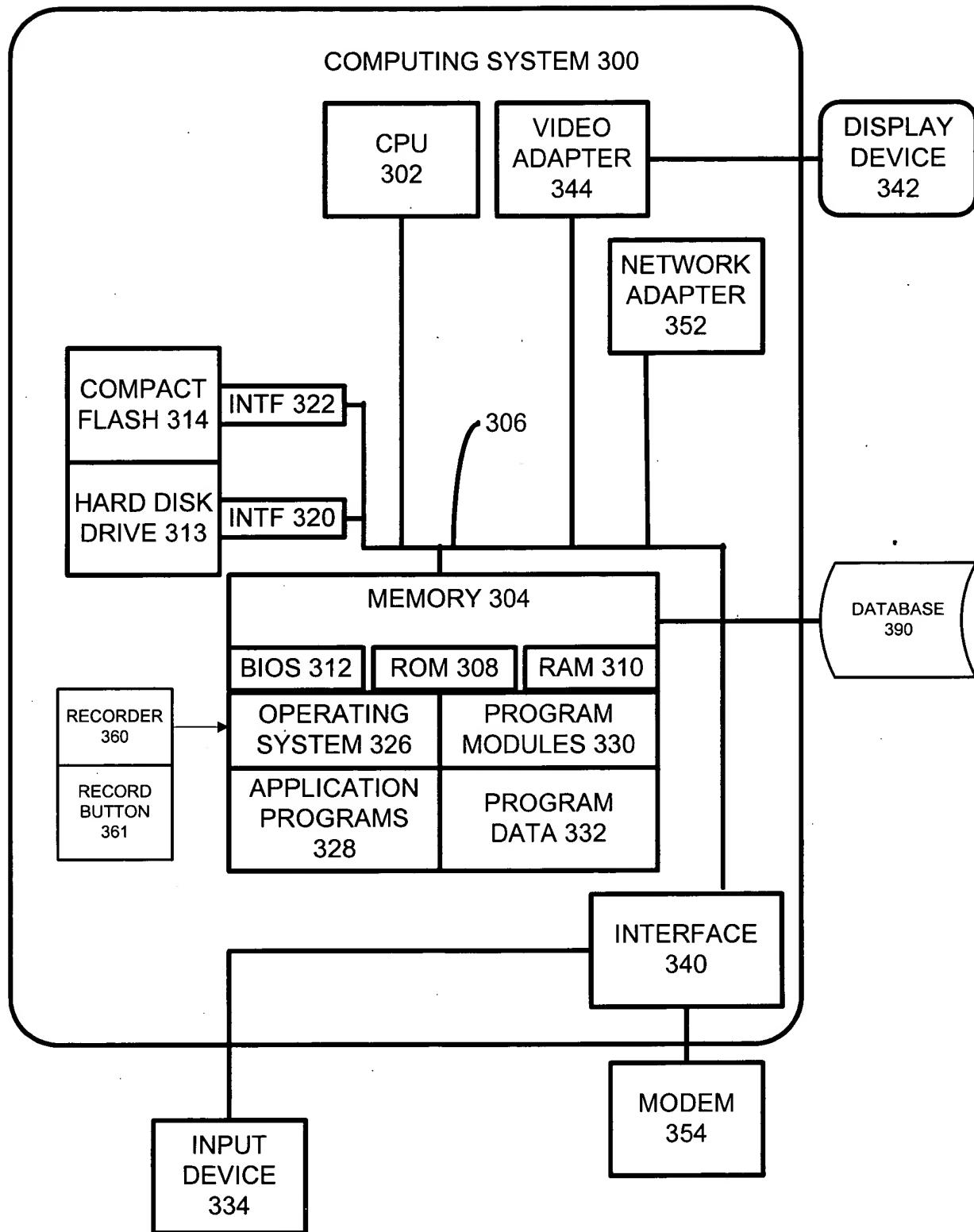


Fig. 3

Fig. 4

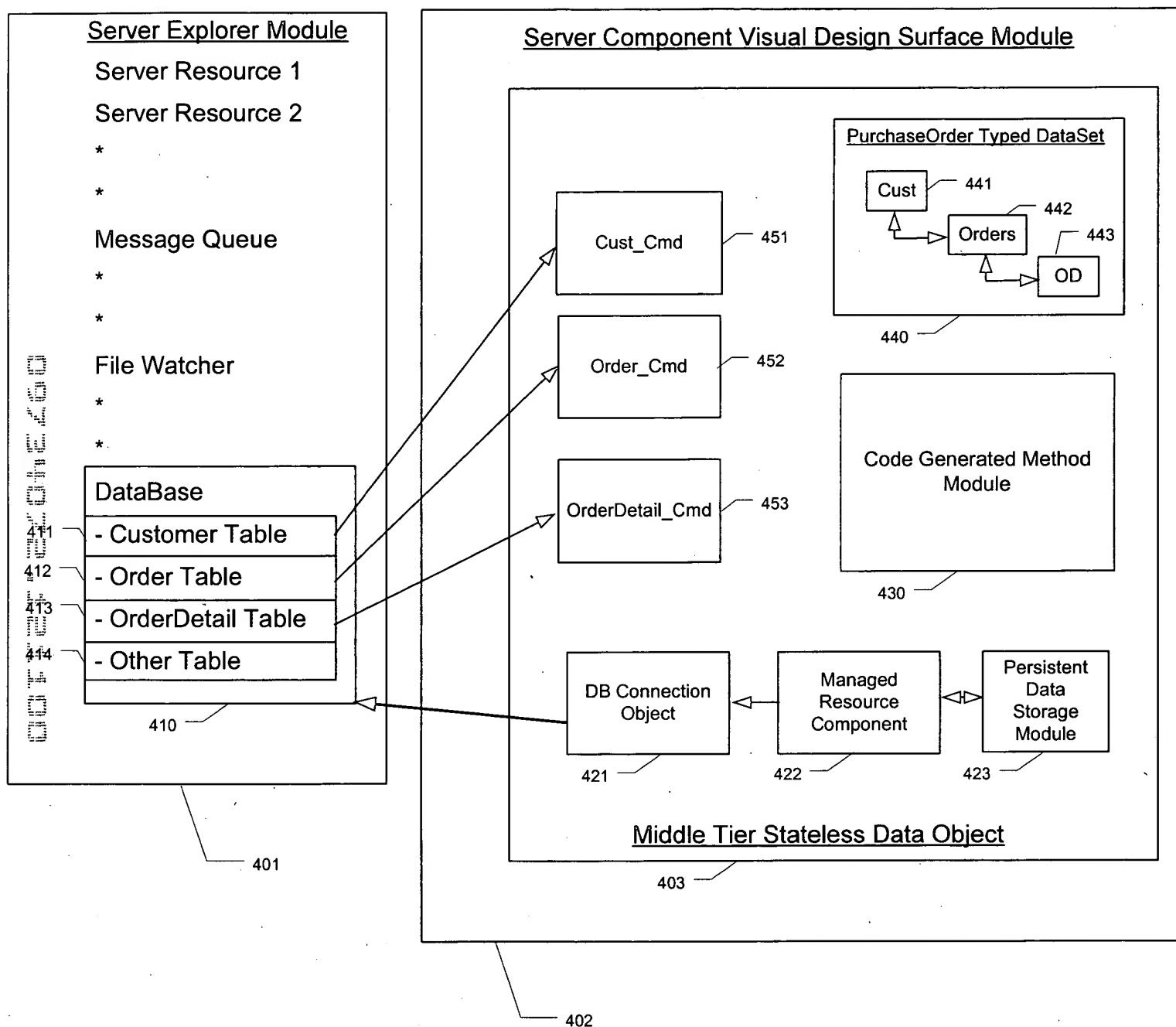


Fig. 5

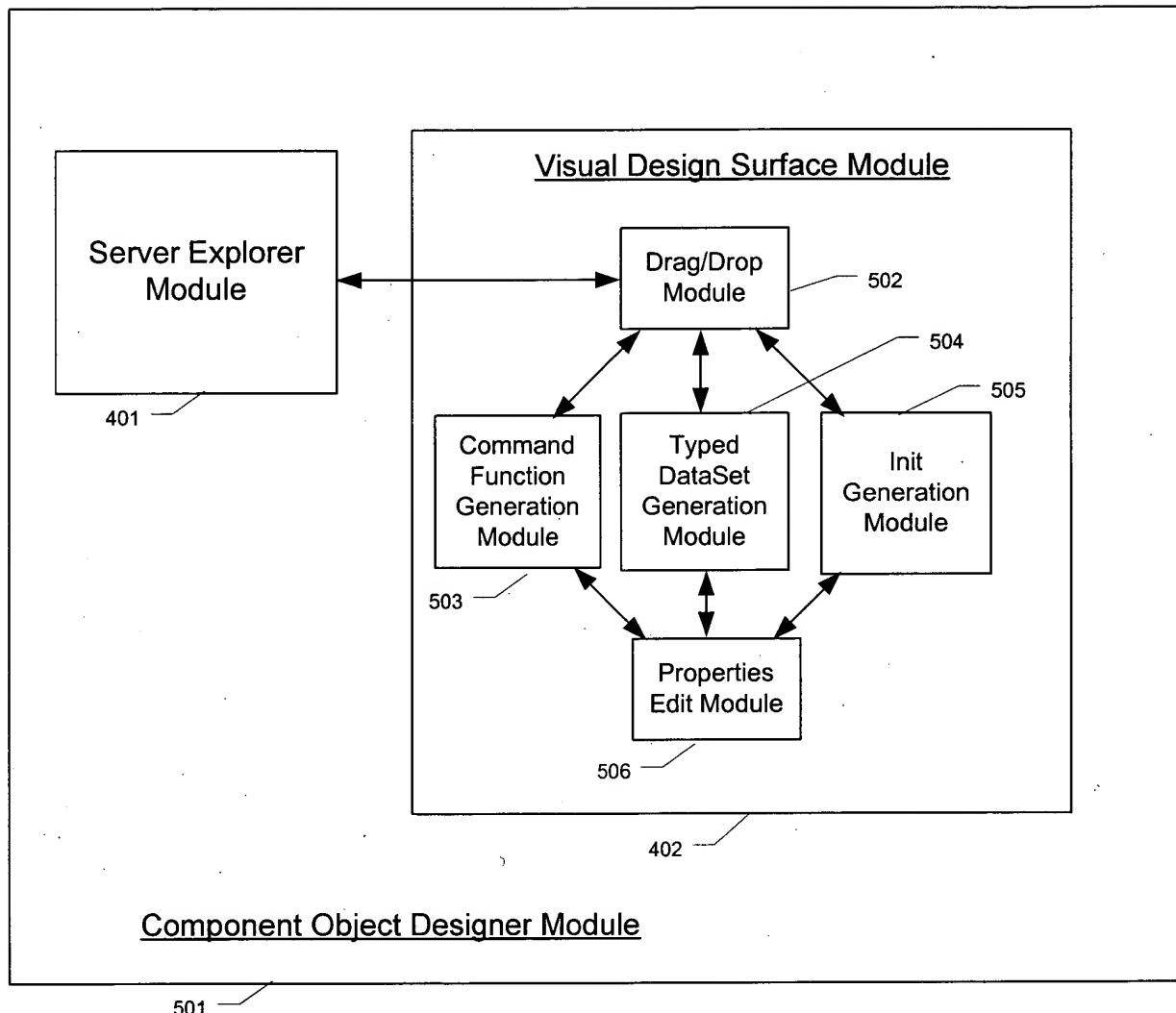


Fig. 6

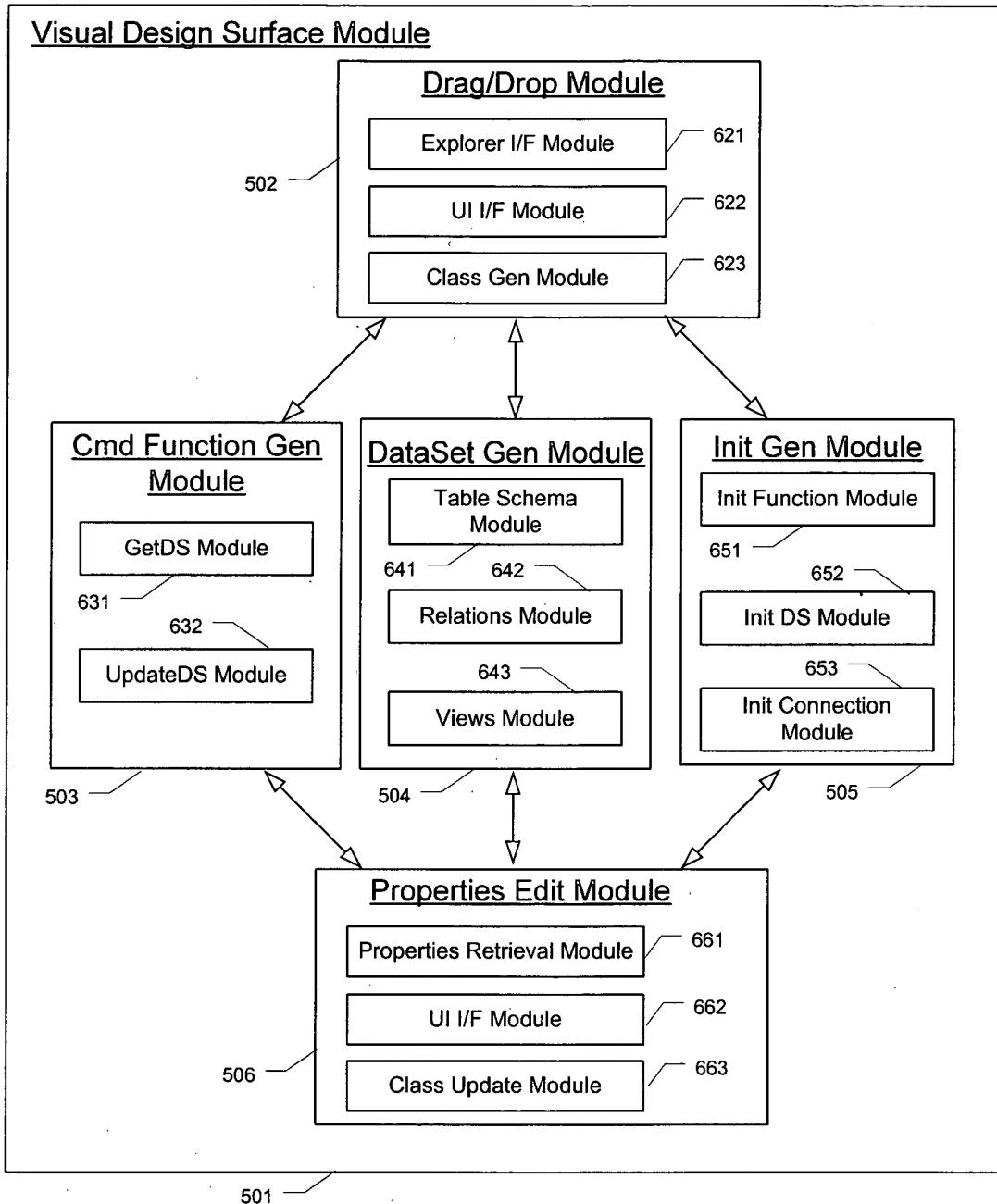


Fig. 7a

## FillDataSet Method

```
Public Function XXXXFillDataSet(ByName dataSet As DataSet,ByName {ParameterName} As System.{ParameterType}) As Long

' Copy input Parameter Values to the Parameter Collection
  DIM vtParameter As Variant
  vtParameter1 = {ParameterName}
  Set {Adapterinstance}.SelectCommand.Parameters.Item(ParameterName).Value=vtParameter1
'Create an error handling block in case filldataset throws an exception
  Try
    'Load dataSet from the command
    XXXXXFillDataSet = {Adapterinstance}.FillDataSet(dataset)
    Catch eFillException as Exception
      'if we can do a debug.print without a reference, then we should print the
      'error info to the output window and re-throw the error.
    End
  End Function
```

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Fig. 7b

## UpdateDataSet Method

```
Public Function XXXXUpdateDataSet (ByName updateDataSet As DataSet) As Long

  const DataCursorRowState flag = DataCursorRowState.new | DataCursorRowState.Deleted |
DataCursorRowState.ModifiedCurrent;
  DataRow[] datarows = dataTable.Select(" ", " ", flag);

  Dim UpdateRows as DataRows()
  Dim NewRows as DataRows()
  Dim DeletedRows as DataRows()

' Get All of the Deleted Rows and Update the Data Store
  DeletedRows = UpdateDataSet.Select(" ", " ", DataCursorRowState.Deleted)
  If 0 < dataRowLength then
    Update(DeletedRows, Adapterinstance.DefaultSourceTableName);
  End If

' Get All of the Updates Rows and Update the Data Store
  UpdatedRows = UpdateDataSet.Select(" ", " ", DataCursorRowState.ModifiedCurrent)
  If 0 < dataRowLength then
    Update(UpdatedRows, Adapterinstance.DefaultSourceTableName);
  End If

' Get All of the New Rows and Update the Data Store
  NewRows = UpdateDataSet.Select(" ", " ", DataCursorRowState.New)
  If 0 < dataRowLength then
    Update(NewRows, Adapterinstance.DefaultSourceTableName);
  End If

End Function
```

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Fig. 8a

## FillAllDataSet

```
Public Sub FillAllDataSet(ByVal dataset As DataSet(), ByVal Parameters As System.{ParameterType})
```

' The line below is added for each adapter on the Virtual Design Surface  
' Passing into the function only the necessary parameters  
(AdapterName1)FillDataSet dataset{, \_parameters}  
(AdapterName2)FillDataSet dataset{, \_parameters}  
\*  
\*  
\*  
(AdapterNameN)FillDataSet dataset{, \_parameters}



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End Sub

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Fig. 8b

## UpdateAllDataSet

**Public Sub** Update{DataSetName} **(ByVal** dataset **As** DataSet)

' The line below is added for each adapter on the Virtual Design Surface

(AdapterName1)Update dataSet  
(AdapterName2)Update dataSet  
\*  
\*  
\*  
(AdapterNameN)Update dataSet



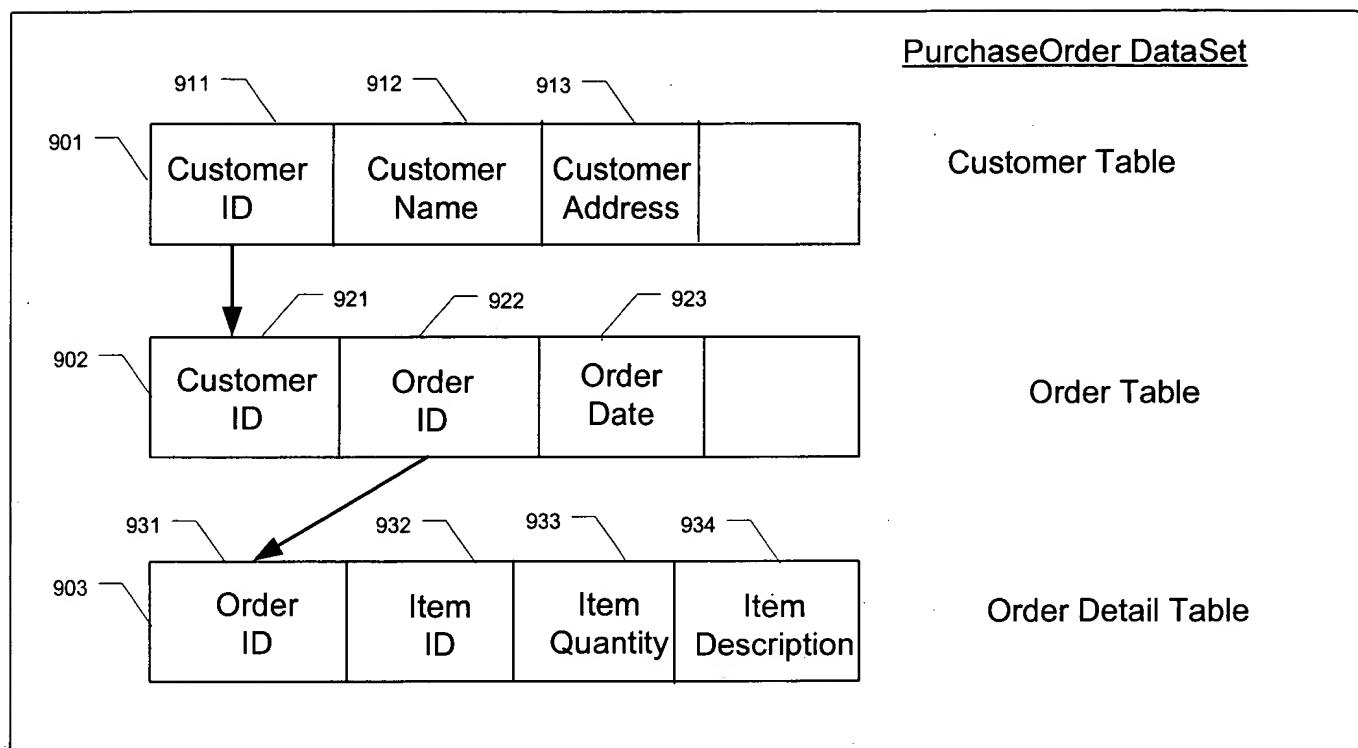
**End Sub**

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Fig. 9



```

Public Sub FillAllDataSet(ByVal PurchaseOrder As DataSet(), ByVal Parameters As
System.{ParameterType})

CustomerFillDataSet PurchaseOrder(, _parameters)
OrderFillDataSet PurchaseOrder(, _parameters)
OrderDetailFillDataSet PurchaseOrder(, _parameters) 941

End Sub 942

Public Sub UpdateAll (ByVal PurchaseOrder As DataSet)

    ' The line below is added for each adapter on the Virtual Design Surface

    OrderDetailUpdate (PurchaseOrder, Filtered (Delete))
    OrderUpdate (PurchaseOrder, Filtered (Delete))
    CustomerUpdate (PurchaseOrder, Filtered (Delete)) 943

    ' The line below is added for each adapter on the Virtual Design Surface

    OrderDetailUpdate (PurchaseOrder, Filtered (Insert | Update))
    OrderUpdate (PurchaseOrder, Filtered (Insert | Update))
    CustomerUpdate (PurchaseOrder, Filtered (Insert | Update)) 944

End Sub

```

Fig. 10

